FILE 'HOME' ENTERED AT 16:50:34 ON 14 JAN 2010

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.22 0.22

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:51:05 ON 14 JAN 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the  ${\tt ZIC/VINITI}$  data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JAN 2010 HIGHEST RN 1202161-01-0 DICTIONARY FILE UPDATES: 13 JAN 2010 HIGHEST RN 1202161-01-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Program Files\Stnexp\Queries\10528356-acid-2.str

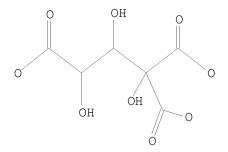
L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 16:51:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 105 TO ITERATE

100.0% PROCESSED

105 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1486 TO 2714
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 16:51:30 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2243 TO ITERATE

100.0% PROCESSED 2243 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

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Uploading C:\Program Files\Stnexp\Queries\10528356-acid-1.str

L4 STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS

L4 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 16:51:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1317 TO ITERATE

100.0% PROCESSED 1317 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 24163 TO 28517 PROJECTED ANSWERS: 346 TO 1054

L5 35 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 16:52:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 26037 TO ITERATE

100.0% PROCESSED 26037 ITERATIONS SEARCH TIME: 00.00.01

775 ANSWERS

35 ANSWERS

L6 775 SEA SSS FUL L4

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 383.08 383.30

FILE 'CAPLUS' ENTERED AT 16:52:05 ON 14 JAN 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 14 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 13 Jan 2010 (20100113/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L7 1 L3

=> s 16

L8 2450 L6

=> d 17 ibib abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:218548 CAPLUS

DOCUMENT NUMBER: 140:277695

TITLE: Process for preparation of a polycarboxylic

composition comprising an electrochemical oxidation

stage of a monosaccharide composition

INVENTOR(S): Marsais, Francis; Feasson, Christian; Queguiner, Guy;

Ibert, Mathias; Comini, Serge; Grossel, Jean Marc

PATENT ASSIGNEE(S): Roquette Freres, Fr. SOURCE: Fr. Demande, 31 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844525	A1	20040319	FR 2002-11546	20020918

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FR 2844525 B1 20050603 WO 2004027118 A1 20040401 WO 2003-FR2702 20030912
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
             GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                      A1 20040408 AU 2003-276334 20030912
A1 20050615 EP 2003-797338 20030912
     AU 2003276334
    EP 1540038
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                          US 2005-528356
     US 20050252785
                     A1 20051117
                                                                  20050318
PRIORITY APPLN. INFO.:
                                            FR 2002-11546
                                                                A 20020918
                                                             W 20030912
                                            WO 2003-FR2702
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
     The aim of present invention is a method of preparation of polycarboxylic
     composition, by electrochem. oxidation of monosaccharide carried out in
absence of
     sodium hypochlorite and in presence of an oxide of amine and using an
     anode based on carbonaceous material. The aforementioned anode is
     selected in the group including carbon felts and the activated granulated
     carbon. The electrochem. oxidation can advantageously be led to pH ranging
     between 10 and 14.
OS.CITING REF COUNT:
                               THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
                               (3 CITINGS)
REFERENCE COUNT:
                               THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                         3
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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        182587 ELECTROCHEMICAL
        521804 OXIDATION
L9
          3984 ELECTROCHEMICAL OXIDATION
                 (ELECTROCHEMICAL (W) OXIDATION)
=> s amine oxide
       314414 AMINE
       2056933 OXIDE
L10
         3775 AMINE OXIDE
                 (AMINE(W)OXIDE)
=> s 19 and 110
            1 L9 AND L10
L11
=> s 111 not 17
     0 L11 NOT L7
L12
=> s monosaccharide
L13
        13596 MONOSACCHARIDE
=> s 113 and 19
             1 L13 AND L9
=> s 114 not 17
L15
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E1
    32 MARSAIS F/AU
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                3 MARSAIS FLORENCE/AU
E.3
            108 --> MARSAIS FRANCIS/AU

1 MARSAIS J/AU

1 MARSAIS OLIVIER/AU

15 MARSAIS PAU

2 MARSAIS PAUL/AU

3 MARSAK J/AU

1 MARSAK JAN/AU

3 MARSAK JIRI/AU

1 MARSAK T L/AU

2 MARSAK Z/AU

5 MARSAK ZLATEK/AU

1 MARSAKOV B A/AU

1 MARSAKOV G P/AU

39 MARSAKOV A/AU

2 MARSAKOVA LYUDMILA
               108 --> MARSAIS FRANCIS/AU
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                       FEASSON C/AU
E3
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3 FEASSON LEONARD/AU
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                21 ("FEASSON C"/AU OR "FEASSON CHRISTIAN"/AU)
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QUEGUINER J M/AU

QUEGUINER LAURENCE/AU

QUEGUINER MORGAN/AU

QUEGUINER S/AU

QUEGUINER STEPHANE/AU

QUEHEILLALT D T/AU

QUEHEILLALT DOUGLAS/AU

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QUEHEILLALT DOUGLAS TED/AU

QUEHEN CINDY/AU

QUEHEN JACQUES/AU

QUEHEN JACQUES/AU

QUEHEN M/AU

QUEHEN S/AU

QUEHEN S/AU

QUEHEN S/AU

QUEHEN S/AU

QUEHEN SABINE/AU

QUEHENBERGER F/AU

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1 QUEHENBERGER FRANZ/AU

1 QUEHENBERGER JOHANNES/AU

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1 IBES B V/AU
1 IBES JUNG M/AU
1 IBES W/AU
1 IBES WILHELMUS JOHANNES MARIA/AU
1 IBES WIM J M/AU
1 IBETTSON J/AU
4 IBEWIRO B/AU
1 IBEWIRO E B/AU
1 IBEWIKE J C/AU
2 IBEWUIKE J C/AU
1 IBEWUIKE J C/AU
1 IBEY B L/AU
1 IBEY B L/AU
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1 IBEY REBECCA E M/AU
1 IBEZIAKO CH/AU
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              3 COMNEA VICTORIA/AU
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E1 1 COMINI ROBERTO/AU
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                            COMINI S/AU
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                    7 --> COMINI SERGE/AU
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                    7 "COMINI SERGE"/AU
L20
                   13 ("COMINI S"/AU OR "COMINI SERGE"/AU)
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E1 1 GROSSEL HUBERT/AU E2 1 GROSSEL J M/AU
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                   1 --> GROSSEL JEAN MARC/AU
E4
                 20 GROSSEL M C/AU
E5
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                            GROSSEL MARTHA/AU
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GROSSEL MARTIN C/AU
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GROSSEL PH/AU
GROSSEL PH/AU
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GROSSEL STANLEY/AU
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GROSSEL STANLEY S/AU
GROSSEL STANLY S/AU
GROSSELE BARBARA/AU
GROSSELE BARBARA/AU
GROSSELEIL JACQUES/AU
GROSSELFINGER F B/AU
GROSSELFINGER FREDERICK B/AU
GROSSELFINGER H/AU
GROSSELFINGER HORST/AU
GROSSELFINGER J/AU
GROSSELFINGER KEVIN/AU
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=> s 122 and oxidation
         521804 OXIDATION
             11 L22 AND OXIDATION
T<sub>2</sub>3
=> d 123 ibib abs 1-
YOU HAVE REQUESTED DATA FROM 11 ANSWERS - CONTINUE? Y/(N):y
L23 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2008:349680 CAPLUS
DOCUMENT NUMBER:
                              148:308572
                             Process for preparation of a D-glucuronic acid
TITLE:
                              derivatives via electrochemical oxidation
                             reaction of glycosides
INVENTOR(S):
                             Fuertes, Patrick; Ibert, Mathias
                           Roquette Freres, Fr.
PATENT ASSIGNEE(S):
SOURCE:
                             Fr. Demande, 32pp.
                              CODEN: FRXXBL
DOCUMENT TYPE:
                             Patent
LANGUAGE:
                              French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                     KIND DATE APPLICATION NO. DATE
      PATENT NO.
      _____
      FR 2905950 A1 20080321 FR 2006-8189 20060919
WO 2008034990 A1 20080327 WO 2007-FR51911 20070911
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
                CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,
                GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,
                KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
                MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,

TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

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IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
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BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: FR 2006-8189 A 20060919

OTHER SOURCE(S): CASREACT 148:308572

AB Process for the preparation of a glucuronic acid via electrochem.-oxidation at

temperature lower than 20°, preferably lower than 16° and more

preferentially between 1° and 14°.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:642056 CAPLUS

DOCUMENT NUMBER: 141:314300

TITLE: Syntheses of sulfoxide derivatives in the benzodiazine

series. Diazines. Part 37

AUTHOR(S): Le Fur, Nicolas; Mojovic, Ljubica; Turck, Alain; Ple,

Nelly; Queguiner, Guy; Reboul, Vincent;

Perrio, Stephane; Metzner, Patrick

CORPORATE SOURCE: Laboratoire de Chimie Organique Fine et

Heterocyclique, IRCOF-INSA de Rouen, UMR CNRS 6014,

Mont-Saint-Aignan, F-76131, Fr.

SOURCE: Tetrahedron (2004), 60(36), 7983-7994

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:314300

AB Syntheses of new sulfinylcinnolines, quinoxalines, quinazolines and phthalazines have been investigated starting from the appropriate halobenzodiazine derivs. The latter were converted in one step to the corresponding sulfanyl benzodiazines which upon oxidation with m-CPBA led to the corresponding sulfoxide derivs. of benzodiazines in moderate to good yields. In parallel to this study, an improved method for the synthesis of 2-(methylsulfinyl)quinoxaline starting from 2-(thio)quinoxaline is also described and in the quinazoline series a synthetic route has been developed to prepare 2-tert-butyl-5-(phenylsulfinyl)quinazoline with satisfactory yield as well as 2-tert-butyl-5-(tert-butylsulfinyl)-4(3H)-quinazolinone and 2-tert-butyl-8-(tert-butylsulfinyl)-4(3H)-quinazolinone.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

(5 CITINGS

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:218548 CAPLUS

DOCUMENT NUMBER: 140:277695

TITLE: Process for preparation of a polycarboxylic composition comprising an electrochemical

oxidation stage of a monosaccharide

composition

INVENTOR(S): Marsais, Francis; Feasson, Christian

; Queguiner, Guy; Ibert, Mathias; Comini, Serge; Grossel, Jean Marc

PATENT ASSIGNEE(S): Roquette Freres, Fr. SOURCE: Fr. Demande, 31 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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                                           _____
    FR 2844525
FR 2844525
                        A1 20040319 FR 2002-11546
                                                                  20020918
    FR 2844525 B1 20050603
WO 2004027118 A1 20040401 WO 2003-FR2702
                                                                  20030912
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            GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
            LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
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            TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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    AU 2003276334 A1 20040408 AU 2003-276334 20030912
EP 1540038 A1 20050615 EP 2003-797338 20030912
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    US 20050252785 A1 20051117 US 2005-528356
                                                                 20050318
PRIORITY APPLN. INFO.:
                                                              A 20020918
                                           FR 2002-11546
                                           WO 2003-FR2702 W 20030912
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
    The aim of present invention is a method of preparation of polycarboxylic
    composition, by electrochem. oxidation of monosaccharide carried out in
absence of
    sodium hypochlorite and in presence of an oxide of amine and using an
    anode based on carbonaceous material. The aforementioned anode is
    selected in the group including carbon felts and the activated granulated
    carbon. The electrochem. oxidation can advantageously be led to pH ranging
    between 10 and 14.
OS.CITING REF COUNT:
                             THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
                              (3 CITINGS)
                              THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                        3
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L23 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:580430 CAPLUS
DOCUMENT NUMBER:
                        139:292428
TITLE:
                        Selective access and full characterization of
                        mono-acidic permethylated \beta-cyclodextrin
                        derivatives and their methyl esters
AUTHOR(S):
                        Tisse, S.; Peulon-Agasse, V.; Oulyadi, H.;
                        Marsais, F.; Combret, J. C.
                        Sciences et Methodes Separatives, UPRES EA 2659,
CORPORATE SOURCE:
                        Universite de Rouen-INSA de Rouen, Mont Saint Aignan,
                        F-76821, Fr.
SOURCE:
                        Tetrahedron: Asymmetry (2003), 14(15), 2259-2266
                        CODEN: TASYE3; ISSN: 0957-4166
                       Elsevier Science B.V.
PUBLISHER:
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
OTHER SOURCE(S):
                        CASREACT 139:292428
    Three acidic derivs. of permethylated \beta-cyclodextrin,
    2I-O-carboxymethyl-2II-VII,3I-VII,6I-VII-eicosa-O-methyl-
    cyclomaltoheptaose, 6I-O-carboxymethyl-2I-VII,3I-VII,6II-VII-eicosa-O-
    methyl-cyclomaltoheptaose, 6I-desoxy-6I-carboxy-2I-VII,3I-VII,6II-VII-
    eicosa-O-methyl-cyclomaltoheptaose and the corresponding Me esters have
    been synthesized with good yields starting from mono-hydroxy permethylated
    \beta\text{-CD} prepared via tert-butyldimethylsilyl protection in 6-position and
    p-methoxybenzyl protection at the 2-position. All of these compds. were
    fully characterized by high field 1H and 13C NMR and HPLC/MS.
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KIND DATE APPLICATION NO. DATE

PATENT NO.

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THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT: 5

(5 CITINGS)

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:402766 CAPLUS

DOCUMENT NUMBER: 137:232836

Determination of the side-products formed during the TITLE:

nitroxide-mediated bleach oxidation of

glucose to glucaric acid

AUTHOR(S): Ibert, Mathias; Marsais, Francis;

Merbouh, Nabyl; Bruckner, Christian

CORPORATE SOURCE: UMR 1064-IRCOF-INSA de Rouen, Mont Saint Aignan,

F-76131, Fr.

Carbohydrate Research (2002), 337(11), 1059-1063 SOURCE:

CODEN: CRBRAT; ISSN: 0008-6215

Elsevier Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:232836

The side products formed in the TEMPO-mediated oxidation of glucose to glucaric acid were determined by GC. Next to glucaric acid, gluconic acid, the intermediate in the oxidation, the degradation products, oxalic acid, tartronic acid, meso- (erythraric) and DL-threaric (tartaric) acid were detected. Chiral GC determined the dl-tartaric acid to be non-racemic mixts. of L- and D-tartaric acids, with inverse D/L-ratios depending on the oxidation of D- or

L-glucose. The origin of all degradation products is rationalized. This study details a fast screening method to optimize the reaction conditions toward minimal degradation

THERE ARE 10 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: 10

RECORD (10 CITINGS)

REFERENCE COUNT: THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS 41

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

2001:780040 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 136:184031

TITLE: Facile nitroxide-mediated oxidations of D-glucose to

D-glucaric acid

AUTHOR(S): Merbouh, Nabyl; Francois Thaburet, Jean; Ibert,

Mathias; Marsais, Francis; Bobbitt,

James M.

CORPORATE SOURCE: Department of Chemistry, University of Connecticut,

Storrs, CT, 06269-3060, USA

SOURCE: Carbohydrate Research (2001), 336(1), 75-78

CODEN: CRBRAT; ISSN: 0008-6215

Elsevier Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:184031

The oxidation of D-(+)-glucose to D-glucaric acid using the TEMPO-like nitroxide oxidation catalyst, 4-acetamido-2,2,6,6-tetramethyl-1-

piperidinyloxy (4-acetamido-TEMPO) was carried out using several oxidizing agents and co-catalyst. The pH and temperature of the reactions were closely monitored to decrease degrdns. during the oxidation, and several isolation

methods were explored.

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

RECORD (12 CITINGS)

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 15

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

2001:70812 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 134:281053

TEMPO-mediated oxidation of maltodextrins TITLE:

> and D-glucose: effect of pH on the selectivity and sequestering ability of the resulting polycarboxylates

Thaburet, Jean-Francois; Merbouh, Nabyl; Ibert, AUTHOR(S):

Mathias; Marsais, Francis;

Quequiner, Guy

Institut de Recherche en Chimie Organique Fine CORPORATE SOURCE:

(IRCOF), UMR 6014 (CNRS), INSA of Rouen,

Mont-Saint-Aignan, F-76131, Fr.

SOURCE: Carbohydrate Research (2001), 330(1), 21-29

CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:281053

Maltodextrins were oxidized to poly-glucuronic acids with the ternary oxidation system: NaOCl-NaBr-2,2,6,6-tetramethylpiperidine-1-oxyl (TEMPO). The chemoselective oxidation at the primary alc. groups was shown to be strongly pH dependent. Oxidation of polysaccharides was best achieved at pH 9.5 in order to minimize depolymn., whereas oxidation of oligosaccharides required stronger alkaline conditions (pH 11-11.5). The resulting sodium polyglucuronates present interesting sequestering properties, the best of which being obtained from maltodextrins with the highest ds.p. The same oxidation process allowed the convenient conversion of D-glucose to D-glucaric acid in high yield (>90%), under strongly basic conditions (pH>11.5).

OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS

RECORD (25 CITINGS)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

1992:448287 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 117:48287

ORIGINAL REFERENCE NO.: 117:8607a,8610a

TITLE: Synthesis and behavior of NADH models bearing a chiral

sulfoxide

AUTHOR(S): Boussad, N.; Trefouel, T.; Dupas, G.; Bourguignon, J.;

Quequiner, G.

CORPORATE SOURCE: IRCOF, INSA, Mont Saint Aignan, 76131, Fr. SOURCE: Phosphorus, Sulfur and Silicon and the Related

Elements (1992), 66(1-4), 127-37CODEN: PSSLEC; ISSN: 1042-6507

DOCUMENT TYPE: Journal English LANGUAGE:

Т

OTHER SOURCE(S): CASREACT 117:48287

GΙ

S(0)Me

Chiral 3-sulfinyl-1,4-dihydropyridine derivs. I (X = H, Cl, OMe) were AΒ synthesized by asym. oxidation of the parent 3-pyridyl sulfides with Kagan's reagent [(Ti(OiPr)4-di-Et tartrate-H2O-Me3COOH (1:2:1:1)]. The chemoselective oxidation conditions of the sulfur atom were optimized. One chiral NADH mimic reagent so obtained was used in the reduction of prochiral  $\alpha,\alpha',\alpha''$ -trifluoroacetophenone. During this reduction a side reaction occurred, i.e., desulfenylation of the reagent and the byproduct was identified after trapping with Me propiolate; this side reaction did not occur in the quinoline series.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(5 CITINGS)

L23 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1991:607953 CAPLUS

DOCUMENT NUMBER: 115:207953

ORIGINAL REFERENCE NO.: 115:35485a,35488a

TITLE: Metalation of diazines. IV. Lithiation of

sym-disubstituted pyrazines

AUTHOR(S): Turck, A.; Trohay, D.; Mojovic, L.; Ple, N.;

Quequiner, G.

CORPORATE SOURCE: Lab. Chim. Org. Fine Heterocycl., INSA, Mont Saint

Aignan, 76131, Fr.

SOURCE: Journal of Organometallic Chemistry (1991), 412(3),

301-10

CODEN: JORCAI; ISSN: 0022-328X

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:207953

AB Conditions for the metalation of 2,6-dichloro- and 2,6-dimethoxypyrazine

are defined and the lithio-derivs. are shown to react with some electrophiles. A convenient synthesis of a diazaxanthone from the

lithio-derivative of the dichloro-compound is described. Couplings between

phenylacetylene and iodo-derivs. of pyrazine have been carried out. OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS

RECORD (18 CITINGS)

L23 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1986:479073 CAPLUS

DOCUMENT NUMBER: 105:79073

ORIGINAL REFERENCE NO.: 105:12837a,12840a

TITLE: Electrochemical behavior of diphenyltin hydrides

AUTHOR(S): Feasson, Christian; Devaud, Marguerite

CORPORATE SOURCE: Inst. Natl. Super. Chim. Ind. Rouen, Mont Saint

Aignan, 76130, Fr.

SOURCE: Journal of Chemical Research, Synopses (1986), (1),

6-7

CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

LANGUAGE: English/French

AB The electrochem. behavior of Ph2SnH2 (I) and Ph2SnHC1 (II) was studied by polarog. and cyclic voltammetry. The effects of acids and bases, and the reduction of II and the oxidation of I at controlled potentials, were also studied. II was oxidized directly to I. II is highly unstable to acids and bases, and decomps. to a dimer in very mildly basic conditions, even with alcs. There is evidence for the formation from I of the octahedral complex [Ph2SnH2(OH)2]2-, which is surprisingly stable in basic media.

L23 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1982:438865 CAPLUS

DOCUMENT NUMBER: 97:38865
ORIGINAL REFERENCE NO.: 97:6651a

TITLE: Synthesis of xanthones and thioxanthones having two

heteroaromatic rings

AUTHOR(S): Trecourt, Francois; Queguiner, Guy

CORPORATE SOURCE: Inst. Natl. Super. Chim. Ind. Rouen, Univ. Rouen, Mont

Saint-Aignan, F-76130, Fr.

SOURCE: Journal of Chemical Research, Synopses (1982), (3),

76-7

CODEN: JRPSDC; ISSN: 0308-2342

Journal

English/French CASREACT 97:38865

GΙ

DOCUMENT TYPE:

OTHER SOURCE(S):

LANGUAGE:

AB Addition reactions of (methylthio) - and methoxypyridinyllithium with methoxythiophene - and methoxy- and (methylthio)pyridinecarboxaldehydes, oxidation of the resulting pyridylthiophenyl - and dipyridylmethanols, and then intramol. cyclocondensation gave xanthones and thioxanthones I (X 

X1 = CH, N) and II (X = CH, X1 = N, X2 = O, S; X = N, X1 = CH, X2 = S) in 37-95% yield. The reaction mechanisms are discussed. The IR and 1H NMR spectra of I and II are reported and discussed.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)